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Search for pair production of second-generation leptoquarks at root s=13 TeV

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Group Author(s): [CMS Collaboration](#)[View ResearcherID and ORCID](#)

PHYSICAL REVIEW D

Volume: 99 Issue: 3

Article Number: 032014

DOI: 10.1103/PhysRevD.99.032014

Published: FEB 27 2019

Document Type: Article

[View Journal Impact](#)

Abstract

A search for pair production of second-generation leptoquarks is performed using proton-proton collision data collected at root s = 13 TeV in 2016 with the CMS detector at the CERN LHC, corresponding to an integrated luminosity of 35.9 fb⁻¹. Final states with two muons and two jets, or with one muon, two jets, and missing transverse momentum are considered. Second-generation scalar leptoquarks with masses less than 1530(1285) GeV are excluded for ss = 1.0(0.5), where ss is the branching fraction for the decay of a leptoquark to a charged lepton and a quark. The results of the search are also interpreted as limits on the pair production of long-lived top squarks in an R-parity violating supersymmetry model that has a final state with two muons and two jets. These limits represent the most stringent limits to date on these models.

Keywords

KeyWords Plus: [HADRON](#); [CONSTRAINTS](#)

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Research Areas: Astronomy & Astrophysics; Physics

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Accession Number: WOS:000459908000001

ISSN: 2470-0010

eISSN: 2470-0029

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